

Application No.: To Be Assigned
Dated: May 17, 2006
Amendment

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-13 (Cancelled).

Claim 14 (New): An injection molding process for the manufacture of a lid for an electrical capacitor, said process employing a dual injection machine having a first mold half initially positioned on a fixed mold plate and a second mold half initially positioned on a rotatable mold plate, comprising the steps of:

- (a) injecting through a first injection unit into the first and second mold halves, as initially positioned, a rigid thermoplastic resin;
- (b) opening the mold halves of the dual injection machine and rotating the rotatable plate so that the second mold half is positioned on the fixed mold plate and the first mold half is positioned on the rotatable mold plate;
- (c) injecting through a second injection unit into the first and second mold halves, as repositioned in step (b), a flexible thermoplastic resin; and
- (d) opening the mold halves of the dual injection machine and expelling the lid for an electric capacitor.

Claim 15 (New): The process according to claim 14, wherein the rigid thermoplastic resin is dried for at least two hours before injection at a temperature of between about 70 and about 100 degrees centigrade.

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Claim 16 (New): The process according to claim 15, wherein the flexible thermoplastic resin is dried for at least two hours before injection at a temperature of between about 70 and about 100 degrees centigrade.

Claim 17 (New): The process according to claim 14, wherein the flexible thermoplastic resin is dried for at least two hours before injection at a temperature of between about 70 and about 100 degrees centigrade.

Claim 18 (New): The process according to claim 14, wherein prior to step (a), the rigid thermoplastic resin is introduced into the barrel of the first injection unit and heated by means of heating elements to a temperature of between about 150 and 350 degrees centigrade.

Claim 19 (New): The process according to claim 18, wherein prior to step (c), the flexible thermoplastic resin is introduced into the barrel of the second injection unit and heated by means of heating elements to a temperature of between about 150 and 350 degrees centigrade.

Claim 20 (New): The process according to claim 14, wherein prior to step (c), the flexible thermoplastic resin is introduced into the barrel of the second injection unit and heated by means of heating elements to a temperature of between about 150 and 350 degrees centigrade.

Claim 21 (New): The process according to claim 20, further comprising the step of reprocessing thermoplastic resin waste produced by the process.

Claim 22 (New): The process according to claim 14, further comprising the step of reprocessing thermoplastic resin waste produced by the process.

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Claim 23 (New): The process according to claim 14, wherein both the rigid thermoplastic resin and the flexible thermoplastic resin each possess an industry standard flame retardant certification rating.

Claim 24 (New): The process according to claim 23, wherein the industry standard flame retardant certification rating is a UL rating of at least V2.

Claim 25 (New): The process according to claim 14, wherein the lid is formed in a single process, without secondary assembly and machining.

Claim 26 (New): A lid for use in the manufacture of an electrical capacitor, comprising:

- (a) an upper cover portion molded from a rigid thermoplastic material, said upper cover portion having an outer surface, an inner surface and an outer perimeter, said upper cover portion having at least one orifice for passing an electrode therethrough and a vent orifice; and

- (b) a lower cover portion molded from a rubber-like thermoplastic material, said lower cover portion having an outer surface, an inner surface and an outer perimeter having a raised portion, said upper cover portion having at least one orifice for passing an electrode therethrough;

wherein said outer surface of said lower cover portion is mated to said inner surface of said upper cover portion.

Claim 27 (New): The lid of claim 26, wherein said vent orifice of said upper cover portion and said lower cover portion cooperate to form a safety valve to exhaust gas in the event of capacitor overheating.

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Claim 28 (New): The lid of claim 27, wherein said upper cover portion has a first diameter and said lower cover portion has a second diameter, said first and second diameters sized so that said outer perimeter of said upper cover portion fits within said raised portion of said outer perimeter of said upper cover portion.

Claim 29 (New): The lid of claim 26, wherein said upper cover portion has a first diameter and said lower cover portion has a second diameter, said first and second diameters sized so that said outer perimeter of said upper cover portion fits within said raised portion of said outer perimeter of said upper cover portion.

Claim 30 (New): The lid of claim 29, wherein said lower cover portion serves as packing for the capacitor's case.

Claim 31 (New): The lid of claim 26, wherein said lower cover portion serves as packing for the capacitor's case.

Claim 32 (New): The lid of claim 26, wherein said upper cover portion and said lower cover portion are produced from a thermoplastic resin possessing an industry standard flame retardant certification rating.

Claim 33 (New): The lid of claim 32, wherein the industry standard flame retardant certification rating is a UL rating of at least V2.